CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)

An ISO 9001-2015 Certified Company

NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date: 02.03.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **M.S.V. Constructions Company, Contractor, Bangalore.**

Name of the work : Improvements to road 8th,9th,10th main and 7th A, 8th A Cross, 5th B, 17th cross and other cross road at MEI layout and 8th B, 9th cross, 5th,18th Main and Other cross roads and Re-Construction of CC roads at MEI Layout in Ward No.14 Dasarahalli Sub-division Package No-DZ 2017-18 (2)(4 Works)

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.02.2022	02.03.2022	8.125	501.2	22.28
2	23.02.2022	02.03.2022	8.137	506.9	22.53
3	23.02.2022	02.03.2022	8.142	508.7	22.61

Note:

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Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date: 23.03.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **M.S.V. Constructions Company, Contractor, Bangalore.**

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Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.02.2022	23.03.2022	8.170	711.9	31.64
2	23.02.2022	23.03.2022	8.177	714.8	31.77
3	23.02.2022	23.03.2022	8.181	715.4	31.80

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Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.02.2022	02.03.2022	8.154	506.9	22.53
2	23.02.2022	02.03.2022	8.159	508.7	22.61
3	23.02.2022	02.03.2022	8.168	511.2	22.72

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Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.02.2022	23.03.2022	8.198	704.2	31.30
2	23.02.2022	23.03.2022	8.206	716.8	31.86
3	23.02.2022	23.03.2022	8.216	724.9	32.22

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Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.02.2022	02.03.2022	8.130	506.3	22.50
2	23.02.2022	02.03.2022	8.137	504.8	22.44
3	23.02.2022	02.03.2022	8.144	511.8	22.75

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Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.02.2022	23.03.2022	8.180	712.9	31.68
2	23.02.2022	23.03.2022	8.188	714.8	31.77
3	23.02.2022	23.03.2022	8.193	715.2	31.79

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Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.02.2022	02.03.2022	8.177	515.2	22.90
2	23.02.2022	02.03.2022	8.189	521.8	23.19
3	23.02.2022	02.03.2022	8.168	508.9	22.62

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For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
Nagasandra, Bangalore - 560 073.

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Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.02.2022	23.03.2022	8.207	719.8	31.99
2	23.02.2022	23.03.2022	8.199	726.3	32.28
3	23.02.2022	23.03.2022	8.211	732.5	32.56

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amaiah Layout, Nagasandra, Bangalore - 560 073.

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Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date: 03.03.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

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Agency : **M.S.V. Constructions Company, Contractor, Bangalore.**

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Sample ID : Cement Concrete

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Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.02.2022	03.03.2022	8.141	505.2	22.45
2	24.02.2022	03.03.2022	8.146	513.9	22.84
3	24.02.2022	03.03.2022	8.152	514.7	22.88

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Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date: 24.03.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

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Agency : **M.S.V. Constructions Company, Contractor, Bangalore.**

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Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.02.2022	24.03.2022	8.198	709.3	31.52
2	24.02.2022	24.03.2022	8.185	716.2	31.83
3	24.02.2022	24.03.2022	8.196	724.5	32.20

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Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.02.2022	03.03.2022	8.161	514.7	22.88
2	24.02.2022	03.03.2022	8.167	515.2	22.90
3	24.02.2022	03.03.2022	8.159	508.6	22.60

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1	24.02.2022	24.03.2022	8.211	709.3	31.52
2	24.02.2022	24.03.2022	8.217	714.2	31.74
3	24.02.2022	24.03.2022	8.221	725.3	32.24

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ಟಿ. ದಾಸರಹಳ್ಳಿ ಉ ವಿಭಾಗ
ಬಿಬಿಎಂಪಿ

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **M.S.V. Constructions Company, Contractor, Bangalore.**

Name of the work : Improvements to road 8th,9th,10th main and 7th A, 8th A Cross, 5th B, 17th cross and other cross road at MEI layout and 8th B, 9th cross, 5th,18th Main and Other cross roads and Re-Construction of CC roads at MEI Layout in Ward No.14 Dasarahalli Sub-division Package No-DZ 2017-18 (2)(4 Works)

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.02.2022	03.03.2022	8.166	505.2	22.45
2	24.02.2022	03.03.2022	8.170	511.3	22.72
3	24.02.2022	03.03.2022	8.172	517.8	23.01

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Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date: 24.03.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **M.S.V. Constructions Company, Contractor, Bangalore.**

Name of the work : Improvements to road 8th,9th,10th main and 7th A, 8th A Cross, 5th B, 17th cross and other cross road at MEI layout and 8th B, 9th cross, 5th,18th Main and Other cross roads and Re-Construction of CC roads at MEI Layout in Ward No.14 Dasarahalli Sub-division Package No-DZ 2017-18 (2)(4 Works)

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm
1	24.02.2022	24.03.2022	8.187	708.2	31.48
2	24.02.2022	24.03.2022	8.194	716.3	31.84
3	24.02.2022	24.03.2022	8.199	721.4	32.06

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Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date: 04.03.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **M.S.V. Constructions Company, Contractor, Bangalore.**

Name of the work : Improvements to road 8th,9th,10th main and 7th A, 8th A Cross, 5th B, 17th cross and other cross road at MEI layout and 8th B, 9th cross, 5th,18th Main and Other cross roads and Re-Construction of CC roads at MEI Layout in Ward No.14 Dasarahalli Sub-division Package No-DZ 2017-18 (2)(4 Works)

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm
1	25.02.2022	04.03.2022	8.138	502.9	22.35
2	25.02.2022	04.03.2022	8.151	503.8	22.39
3	25.02.2022	04.03.2022	8.163	505.1	22.45

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Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date: 25.03.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **M.S.V. Constructions Company, Contractor, Bangalore.**

Name of the work : Improvements to road 8th,9th,10th main and 7th A, 8th A Cross, 5th B, 17th cross and other cross road at MEI layout and 8th B, 9th cross, 5th,18th Main and Other cross roads and Re-Construction of CC roads at MEI Layout in Ward No.14 Dasarahalli Sub-division Package No-DZ 2017-18 (2)(4 Works)

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.02.2022	25.03.2022	8.194	717.9	31.91
2	25.02.2022	25.03.2022	8.199	718.1	31.92
3	25.02.2022	25.03.2022	8.212	720.3	32.01

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Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date: 04.03.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **M.S.V. Constructions Company, Contractor, Bangalore.**

Name of the work : Improvements to road 8th,9th,10th main and 7th A, 8th A Cross, 5th B, 17th cross and other cross road at MEI layout and 8th B, 9th cross, 5th,18th Main and Other cross roads and Re-Construction of CC roads at MEI Layout in Ward No.14 Dasarahalli Sub-division Package No-DZ 2017-18 (2)(4 Works)

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.02.2022	04.03.2022	8.138	511.2	22.72
2	25.02.2022	04.03.2022	8.149	488.9	21.73
3	25.02.2022	04.03.2022	8.152	476.3	21.17

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Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date: 25.03.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **M.S.V. Constructions Company, Contractor, Bangalore.**

Name of the work : Improvements to road 8th,9th,10th main and 7th A, 8th A Cross, 5th B, 17th cross and other cross road at MEI layout and 8th B, 9th cross, 5th,18th Main and Other cross roads and Re-Construction of CC roads at MEI Layout in Ward No.14 Dasarahalli Sub-division Package No-DZ 2017-18 (2)(4 Works)

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.02.2022	25.03.2022	8.180	704.2	31.30
2	25.02.2022	25.03.2022	8.193	716.5	31.84
3	25.02.2022	25.03.2022	8.197	728.4	32.37

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ಟಿ. ದಾಸರಹಳ್ಳಿ ಉಪ ವಿಭಾಗ
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Client : **Assistant Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore.**

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Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.02.2022	04.03.2022	8.188	504.2	22.41
2	25.02.2022	04.03.2022	8.194	476.9	21.20
3	25.02.2022	04.03.2022	8.165	489.3	21.75

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ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು

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Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date: 25.03.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **M.S.V. Constructions Company, Contractor, Bangalore.**

Name of the work : Improvements to road 8th,9th,10th main and 7th A, 8th A Cross, 5th B, 17th cross and other cross road at MEI layout and 8th B, 9th cross, 5th,18th Main and Other cross roads and Re-Construction of CC roads at MEI Layout in Ward No.14 Dasarahalli Sub-division Package No-DZ 2017-18 (2)(4 Works)

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.02.2022	25.03.2022	8.179	706.9	31.42
2	25.02.2022	25.03.2022	8.181	710.1	31.56
3	25.02.2022	25.03.2022	8.188	712.8	31.68

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **M.S.V. Constructions Company, Contractor, Bangalore.**

Name of the work : Improvements to road 8th,9th,10th main and 7th A, 8th A Cross, 5th B, 17th cross and other cross road at MEI layout and 8th B, 9th cross, 5th,18th Main and Other cross roads and Re-Construction of CC roads at MEI Layout in Ward No.14 Dasarahalli Sub-division Package No-DZ 2017-18 (2)(4 Works)

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.02.2022	04.03.2022	8.130	506.1	22.49
2	25.02.2022	04.03.2022	8.134	512.8	22.79
3	25.02.2022	04.03.2022	8.138	517.4	23.00

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Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date: 25.03.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore.

Agency : M.S.V. Constructions Company, Contractor, Bangalore.

Name of the work : Improvements to road 8th,9th,10th main and 7th A, 8th A Cross, 5th B, 17th cross and other cross road at MEI layout and 8th B, 9th cross, 5th,18th Main and Other cross roads and Re-Construction of CC roads at MEI Layout in Ward No.14 Dasarahalli Sub-division Package No-DZ 2017-18 (2)(4 Works)

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.02.2022	25.03.2022	8.179	704.3	31.30
2	25.02.2022	25.03.2022	8.193	707.7	31.45
3	25.02.2022	25.03.2022	8.202	714.8	31.77

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JobNo: CACE/BBMP/MSV/W.No.14/2021-22 Date : 23.03.2022

TEST RESULTS OF AGGREGATE SHAPE TEST
(Flakiness & Elongation)

Client : Assistant Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore.

Agency : M.S.V. Constructions Company, Contractor, Bangalore.

Name of work : Improvements to road 8th,9th,10th main and 7th A, 8th A Cross, 5th B, 17th cross and other cross road at MEI layout and 8th B, 9th cross, 5th,18th Main and Other cross roads and Re-Construction of CC roads at MEI Layout in Ward No.14 Dasarahalli Sub-division Package No-DZ 2017-18 (2)(4 Works)

BIS Code : IS 2386 Part (1):1963

Date of Test : 23.03.2022

Type of Mix : Dense Graded Bituminous Macadam

Sl.No.	Flakiness Index Value(%)	Elongation Index Value(%)	Total(Combined Flakiness and Elongation)(%)	Requirements
1	12.20	13.50	25.70	Maximum allowable Combined Flakiness and Elongation Indices for Dense Graded Bituminous Macadam is 35% as per Table 500.8 MORTH Specification.
2	12.90	13.40	26.30	

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Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date: 23.03.2022

Aggregate Gradation Test

Client	**: Assistant Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore.**
Agency	**: M.S.V. Constructions Company, Contractor, Bangalore.**
Name of the Work	: Improvements to road 8th,9th,10th main and 7th A, 8th A Cross, 5th B, 17th cross and other cross road at MEI layout and 8th B, 9th cross, 5th,18th Main and Other cross roads and Re-Construction of CC roads at MEI Layout in Ward No.14 Dasarahalli Sub-division Package No-DZ 2017-18 (2)(4 Works)
BIS Code	IS 2386(Part 1):1963(RA 2011)
Sample I / D	Hot mix Plant, Bangalore.
Type of Mix	Dense Graded Bituminous Macadam
Date of Testing	23.03.2022

Total Weight of Sample: **10000** gm

SIEVE SIZE, mm	Weight Retained, gm	% Retained	Cummulative % Retained	% Passing	Requirement as per MORTH table 500.10	Remarks
37.50	0	0.0	0	100	100	Gradation satisfies Grade-II MORTH specification
26.50	721	7.2	7.21	92.79	90 - 100	
19.00	1219	12.2	19.40	80.60	71 - 95	
13.20	1385	13.9	33.25	66.75	56 - 80	
4.75	2519	25.2	58.44	41.56	38 - 54	
2.36	1089	10.9	69.33	30.67	28 - 42	
0.300	1318	13.2	82.51	17.49	7 - 21	
0.075	1165	11.7	94.16	5.84	2 - 8	

Total Weight of Sample: **10000** gm

SIEVE SIZE, mm	Weight Retained, gm	% Retained	Cummulative % Retained	% Passing	Requirement as per MORTH table 500.10	Remarks
37.5	0	0.0	0	100	100	Gradation satisfies Grade-II MORTH specification
26.5	697	7.0	6.97	93.03	90 - 100	
19	1418	14.2	21.15	78.85	71 - 95	
13.2	1141	11.4	32.56	67.44	56 - 80	
4.75	2418	24.2	56.74	43.26	38 - 54	
2.360	1164	11.6	68.38	31.62	28 - 42	
0.300	1311	13.1	81.49	18.51	7 - 21	
0.075	1181	11.8	93.30	6.70	2 - 8	

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JobNo: CACE/BBMP/MSV/W.No.14/2021-22 Date : 23.03.2022

TEST RESULTS OF AGGREGATE IMPACT VALUE

Client : **Assistant Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **M.S.V. Constructions Company, Contractor, Bangalore.**

Name of work : Improvements to road 8th,9th,10th main and 7th A, 8th A Cross, 5th B, 17th cross and other cross road at MEI layout and 8th B, 9th cross, 5th,18th Main and Other cross roads and Re-Construction of CC roads at MEI Layout in Ward No.14 Dasarahalli Sub-division Package No-DZ 2017-18 (2)(4 Works)

Source / Location : Hot Mix Plant, Bangalore

BIS Code : IS 2386 Part (4):1963

Type of Mix : Dense Graded Bituminous Macadam

Date of test : 23.03.2022

Sl No.	Details	Trial No.		Average
		1	2	
1	Total weight of aggregate sample filling the cylindrical measure = W1 g	388	383	
2	Weight of agregate passing 2.36 mm sieve after the test = W2 g	87	89	
3	Weight of aggregate retained 2.36 mm sieve after the test = W3 g	301	294	
5	Aggregate Impact value = percent fines 100* (W2/W1) percent	22.42	23.24	**22.83**

Comments:

→ Maximum allowable Aggregate Impact value for Dense Graded Bituminous Macadam is 27% (Table 500-8 of MORTH specification)

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Job No: CACE/BBMP/MSV/W.No.14/2021-22 Date: **23.03.2022**

TEST REPORT ON PAVING BITUMEN

Client	**Assistant Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
Agency	**M.S.V. Constructions Company,** Contractor, Bangalore.
Name of work	Improvements to road 8th,9th,10th main and 7th A, 8th A Cross, 5th B, 17th cross and other cross road at MEI layout and 8th B, 9th cross, 5th,18th Main and Other cross roads and Re-Construction of CC roads at MEI Layout in Ward No.14 Dasarahalli Sub-division Package No-DZ 2017-18 (2)(4 Works)
BIS Code	IS 73:2013,IS 1203:1978, IS 1208:1978, IS 1205:1978, IS1448(P-69):1969
Date of Testing	**23.03.2022**
Type of Mix	**Dense Graded Bituminous Macadam , VG 30**
Source of Location	**Hot Mix Plant**

The results of the tests conducted on the bitumen sample using for Dense Graded Bituminous Macadam

Sl.No	Description	Test Result	Requirement as per IS:73:2013
1	Penetration at 25 0C, 100gms, 5sec, 1/10 mm	58	Min 45
2	Softening point, 0C	52	Min 47
3	Ductility at 250C, cm	>110	Min40
4	Flash Point, 0C	281	Min 220

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Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date: 25.03.2022

Specific Gravity And Water Absorption Test

Client	**: Assistant Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore.**
Agency	**: M.S.V. Constructions Company, Contractor, Bangalore.**
Name of the Work	: Improvements to road 8th,9th,10th main and 7th A, 8th A Cross, 5th B, 17th cross and other cross road at MEI layout and 8th B, 9th cross, 5th,18th Main and Other cross roads and Re-Construction of CC roads at MEI Layout in Ward No.14 Dasarahalli Sub-division Package No-DZ 2017-18 (2)(4 Works)
BIS Code	IS 2386(Part 3):1963
Type of Mix	Dense Graded Bituminous Macadam
Date of Testing	23.03.2022 to 25.03.2022

Sl. No.	Details	Notation	Test Number			Mean Value
			Test 1	Test 2	Test 3	
1	Weight of aggregate suspended in water with the basket	$W_1 g$	2025	2027	2028	
2	Weight of basket suspended in water	$W_2 g$	757	758	756	
3	Weight of saturated aggregate in water	$(W_1 - W_2) = W_s g$	1268	1269	1272	
4	Weight of saturated surface dry aggregate in air	$W_3 g$	2015	2017	2018	
5	Weight of water equal to the volume of the aggregate	$(W_3 - W_S) g$	747	748	746	
6	Weight of oven dried aggregate	$W_4 g$	2007	2007	2005	
7	Specific Gravity	$W_4/(W_3-W_S)$	2.687	2.683	2.688	2.686
8	Apparent Specific gravity	$W_4/(W_4-W_S)$	2.716	2.720	2.735	2.724
9	Water Absorption	$((W_3-W_4)*100)/W_4$	0.40%	0.50%	0.65%	0.52%

Comments:

→ Maximum allowable Aggregate Water absorption value for Dense Graded Bituminous Macadam is 2.0%(As per MORTH table 500.8)

CamScanner

CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)

An ISO 9001-2015 Certified Company

NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date: 28.03.2022

TEST REPORT ON STABILITY OF MIX

Client	:	**Assistant Executive Engineer**, T. Dasarahalli Sub Division, BBMP, Bangalore.
Agency	:	**M.S.V. Constructions Company**, Contractor, Bangalore.
Name of the Work	:	Improvements to road 8th,9th,10th main and 7th A, 8th A Cross, 5th B, 17th cross and other cross road at MEI layout and 8th B, 9th cross, 5th,18th Main and Other cross roads and Re-Construction of CC roads at MEI Layout in Ward No.14 Dasarahalli Sub-division Package No-DZ 2017-18 (2)(4 Works)
Type of Mix	:	Dense Graded Bituminous Macadam
Date of Testing	:	28.03.2022

The results of the tests conducted on the Dense Graded Bituminous Macadam mix sample are as follows:

Sl. No	Description	Test Result 1	Test Result 2	Requirement as per MORTH (Table 500-19)
1	Marshal Stability, Kn	9.52	10.21	9 Kn (min)
2	Marshal flow, mm	3.86	3.95	2 – 4
3	Percent air voids in Mineral Aggregate	13.97	14.53	13 – 15
4	Voids in Compacted Mix	3.48	4.62	3 – 6
5	Percent Voids filled with Bitumen	68.19	69.75	65 - 75
6	Density, g/cc	2.25	2.24	--

Note:

⇒ This test report shall not be reproduced except in full, without written approval of the laboratory.

⇒ The results indicated above are based on the tests carried out on the samples collected at the site.

⇒ Any Query regarding the report must be reported within 30 days from the date of testing.

For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory